## SEQUENCE LISTING

	(1) GE	NERAL INFORMATION:
5	(i)	APPLICANT: Lee, James Wood, WIlliam I.
	(ii)	TITLE OF INVENTION: PF4A Receptors
10	(iii)	NUMBER OF SEQUENCES: 6
15	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Genentech, Inc. (B) STREET: 1 DNA Way (C) CITY: South San Francisco (D) STATE: California
		(E) COUNTRY: USA (F) ZIP: 94080
20	(v)	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: WinPatin (Genentech)
25 5	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER:  (B) FILING DATE: 24-June-1998  (C) CLASSIFICATION:
30 C	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: 08/701265  (B) FILING DATE: 22-AUG-1996
35 D	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/664228 (B) FILING DATE: 06-JUN-1996
40 G	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/076093 (B) FILING DATE: 11-JUN-1993
45	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 07/810782 (B) FILING DATE: 19-DEC-1991
	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Love, Richard B. (B) REGISTRATION NUMBER: 34,659 (C) REFERENCE/DOCKET NUMBER: P0706P2C2
50	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: 415/225-5530 (B) TELEFAX: 415/952-9881 (C) TELEX: 910/371-7168
55	(2) INI	FORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1933 base pairs
- (B) TYPE: Nucleic Acid
- (C) STRANDEDNESS: Single
- (D) TOPOLOGY: Linear

5

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CCTGGCCGGT GCTTCAGTTA GATCAAACCA TTGCTGAAAC TGAAGAGGAC 50 10 ATGTCAAATA TTACAGATCC ACAGATGTGG GATTTTGATG ATCTAAATTT 100 CACTGGCATG CCACCTGCAG ATGAAGATTA CAGCCCCTGT ATGCTAGAAA 150 CTGAGACACT CAACAAGTAT GTTGTGATCA TCGCCTATGC CCTAGTGTTC 200 15 CTGCTGAGCC TGCTGGGAAA CTCCCTGGTG ATGCTGGTCA TCTTATACAG 250 CAGGGTCGGC CGCTCCGTCA CTGATGTCTA CCTGCTGAAC CTGGCCTTGG 300 CCGACCTACT CTTTGCCCTG ACCTTGCCCA TCTGGGCCGC CTCCAAGGTG 350 20 AATGGCTGGA TTTTTGGCAC ATTCCTGTGC AAGGTGGTCT CACTCCTGAA 400 GGAAGTCAAC TTCTACAGTG GCATCCTGCT GTTGGCCTGC ATCAGTGTGG 450 ACCGTTACCT GGCCATTGTC CATGCCACAC GCACACTGAC CCAGAAGCGT 500 CACTTGGTCA AGTTTGTTTG TCTTGGCTGC TGGGGACTGT CTATGAATCT 550 30 <del>[</del> GTCCCTGCCC TTCTTCCTTT TCCGCCAGGC TTACCATCCA AACAATTCCA 600 (Ti GTCCAGTTTG CTATGAGGTC CTGGGAAATG ACACAGCAAA ATGGCGGATG 650 GTGTTGCGGA TCCTGCCTCA CACCTTTGGC TTCATCGTGC CGCTGTTTGT 700 35 □ CATGCTGTTC TGCTATGGAT TCACCCTGCG TACACTGTTT AAGGCCCACA 750 m TGGGGCAGAA GCACCGAGCC ATGAGGGTCA TCTTTGCTGT CGTCCTCATC 800 TTCCTGCTTT GCTGGCTGCC CTACAACCTG GTCCTGCTGG CAGACACCCT 850 40 🛅 m CATGAGGACC CAGGTGATCC AGGAGACCTG TGAGCGCCGC AACAACATCG 900 GCCGGGCCCT GGATGCCACT GAGATTCTGG GATTTCTCCA TAGCTGCCTC 950 45 AACCCCATCA TCTACGCCTT CATCGGCCAA AATTTTCGCC ATGGATTCCT 1000 CAAGATCCTG GCTATGCATG GCCTGGTCAG CAAGGAGTTC TTGGCACGTC 1050 50 ATCGTGTTAC CTCCTACACT TCTTCGTCTG TCAATGTCTC TTCCAACCTC 1100 TGAAAACCAT CGATGAAGGA ATATCTCTTC TCAGAAGGAA AGAATAACCA 1150 ACACCCTGAG GTTGTGTGT GAAGGTGATC TGGCTCTGGA CAGGCACTAT 1200 55 CTGGGTTTTG GGGGGACGCT ATAGGATGTG GGGAAGTTAG GAACTGGTGT 1250 CTTCAGGGGC CACACCAACC TTCTGAGGAG CTGTTGAGGT ACCTCCAAGG 1300

	ACCGGCCTTT	GCACCTCC	AT G	GAAA	CGAA	G CA	CCAT	CATT	CCC	GTTG	AAC	1350
	GTCACATCTT	TAACCCAC	TA A	CTGG	CTAAT	TA	GCAT	GGCC	ACA'	TCTG	AGC	1400
5	CCCGAATCTG	ACATTAGA	TG A	GAGA	ACAGO	GC'	rgaa:	GCTG	TGT	CCTC	ATG	1450
J	AGGGCTGGAT	GCTCTCGT	TG A	CCCT	CACAG	GA(	GCAT	CTCC	TCA	ACTC'	rga	1500
	GTGTTAAGCG	TTGAGCCA	.CC A	AGCT	GGTGG	CTC	CTGT	GTGC	TCT	GATC	CGA	1550
10	GCTCAGGGGG	GTGGTTTT	cc c	ATCT	CAGGI	GT	GTTG	CAGT	GTC'	TGCT	GGA	1600
	GACATTGAGG	CAGGCACT	GC C	AAAA	CATC	A AC	CTGC	CAGC	TGG	CCTT	GTG	1650
15	AGGAGCTGGA	AACACATG	TT C	CCCT'	rggg	GT(	GGTG	GATG	AAC	AAAG	AGA	1700
13	AAGAGGGTTT	GGAAGCCA	GA T	CTAT	GCCAC	C AA	GAAC	cccc	TTT	ACCC	CCA	1750
	TGACCAACAT	CGCAGACA	CA T	GTGC'	rggco	AC(	CTGC'	TGAG	CCC	CAAG'	rgg	1800
20	AACGAGACAA	GCAGCCCT	TA G	CCCT	rcccc	TC:	rgca(	GCTT	CCA	GGCT	GGC	1850
	GTGCAGCATC	AGCATCCC	TA G	AAAG	CCATO	TG	CAGC	CACC	AGT	CCAT!	rgg	1900
25 =	GCAGGCAGAT	GTTCCTAA	TA A	AGCT'	rctgi	TC	C 19	33				
25 <u>5</u> <u>+</u> 	(2) INFORMA	rion for	SEQ	ID NO	0:2:							
S F		ENCE CHAR LENGTH: 3				le						
30 <u> </u>	(B) '	TYPE: Ami TOPOLOGY:	no A	cid	ucic							
, W	(xi) SEQU	ENCE DESC	RIPT	ION:	SEQ	ID 1	10:2	:				
35 🗖 (jī)	Met Ser Ass	n Ile Thr 5		Pro	Gln	Met	Trp 10	Asp	Phe	Asp	Asp	Leu 15
10 40 40	Asn Phe Th	r Gly Met 20		Pro	Ala	Asp	Glu 25	Asp	Tyr	Ser	Pro	Cys .30
10	Met Leu Gl	ı Thr Glu 35		Leu		_	_	Val				Ala 45
45	Tyr Ala Le	ı Val Phe 50		Leu	Ser	Leu	Leu 55	Gly	Asn	Ser	Leu	Val 60
	Met Leu Va	l Ile Leu 65		Ser	Arg	Val	Gly 70	Arg	Ser	Val	Thr	Asp 75
50	Val Tyr Le	ı Leu Asn	Leu	Ala	Leu	Ala	Asp	Leu	Leu	Phe	Ala	Leu

Thr Leu Pro Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe

	Phe	Tyr	Ser	Gly	Ile 125	Leu	Leu	Leu	Ala	Cys 130	Ile	Ser	Val	Asp	Arg 135
5	Tyr	Leu	Ala	Ile	Val 140	His	Ala	Thr	Arg	Thr 145	Leu	Thr	Gln	Lys	Arg 150
3	His	Leu	Val	Lys	Phe 155	Val	Cys	Leu	Gly	Cys 160	Trp	Gly	Leu	Ser	Met 165
10	Asn	Leu	Ser	Leu	Pro 170	Phe	Phe	Leu	Phe	Arg 175	Gln	Ala	Tyr	His	Pro 180
	Asn	Asn	Ser	Ser	Pro 185	Val	Cys	Tyr	Glu	Val 190	Leu	Gly	Asn	Asp	Thr 195
15	Ala	Lys	Trp	Arg	Met 200	Val	Leu	Arg	Ile	Leu 205	Pro	His	Thr	Phe	Gly 210
0.0	Phe	Ile	Val	Pro	Leu 215	Phe	Val	Met	Leu	Phe 220	Cys	Tyr	Gly	Phe	Thr 225
20	Leu	Arg	Thr	Leu	Phe 230	Lys	Ala	His	Met	Gly 235	Gln	Lys	His	Arg	Ala 240
25 📮	Met	Arg	Val	Ile	Phe 245	Ala	Val	Val	Leu	Ile 250	Phe	Leu	Leu	Cys	Trp 255
	Leu	Pro	Tyr	Asn	Leu 260	Val	Leu	Leu	Ala	Asp 265	Thr	Leu	Met	Arg	Thr 270
30 <u>+</u>	Gln	Val	Ile	Gln	Glu 275	Thr	Cys	Glu	Arg	Arg 280	Asn	Asn	Ile	Gly	Arg 285
₩ •	Ala	Leu	Asp	Ala	Thr 290	Glu	Ile	Leu	Gly	Phe 295	Leu	His	Ser	Cys	Leu 300
35 CT	Asn	Pro	Ile	Ile	Tyr 305	Ala	Phe	Ile	Gly	Gln 310	Asn	Phe	Arg	His	Gly 315
华 40 望	Phe	Leu	Lys	Ile	Leu 320	Ala	Met	His	Gly	Leu 325	Val	Ser	Lys	Glu	Phe 330
	Leu	Ala	Arg	His	Arg 335	Val	Thr	Ser	Tyr	Thr 340	Ser	Ser	Ser	Val	Asn 345
45	Val	Ser	Ser	Asn	Leu 350										
	(2)	NFOF	RMATI	ON E	FOR S	SEQ I	D NC	3:							
50	į)	( <i>P</i>	A) LE 3) TY	NCE C ENGTH (PE: CRAND	l: 17 Nucl	37 b	ase Acio	pair l	s						
				POLC				,							

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GAATTCCAGT GTGCTGGCGG CGCGGCGCAA AGTGACGCCG AGGGCCTGAG 50 TGCTCCAGTA GCCACCGCAT CTGGAGAACC AGCGGTTACC ATGGAGGGGA 100 TCAGTATATA CACTTCAGAT AACTACACCG AGGAAATGGG CTCAGGGGAC 150 5 TATGACTCCA TGAAGGAACC CTGTTTCCGT GAAGAAAATG CTAATTTCAA 200 TAAAATCTTC CTGCCCACCA TCTACTCCAT CATCTTCTTA ACTGGCATTG 250 TGGGCAATGG ATTGGTCATC CTGGTCATGG GTTACCAGAA GAAACTGAGA 300 10 AGCATGACGG ACAAGTACAG GCTGCACCTG TCAGTGGCCG ACCTCCTCTT 350 TGTCATCACG CTTCCCTTCT GGGCAGTTGA TGCCGTGGCA AACTGGTACT 400 15 TTGGGAACTT CCTATGCAAG GCAGTCCATG TCATCTACAC AGTCAACCTC 450 TACAGCAGTG TCCTCATCCT GGCCTTCATC AGTCTGGACC GCTACCTGGC 500 20 CATCGTCCAC GCCACCAACA GTCAGAGGCC AAGGAAGCTG TTGGCTGAAA 550 AGGTGGTCTA TGTTGGCGTC TGGATCCCTG CCCTCCTGCT GACTATTCCC 600 GACTTCATCT TTGCCAACGT CAGTGAGGCA GATGACAGAT ATATCTGTGA 650 CCGCTTCTAC CCCAATGACT TGTGGGTGGT TGTGTTCCAG TTTCAGCACA 700 TCATGGTTGG CCTTATCCTG CCTGGTATTG TCATCCTGTC CTGCTATTGC 750 30 ATTATCATCT CCAAGCTGTC ACACTCCAAG GGCCACCAGA AGCGCAAGGC 800 CCTCAAGACC ACAGTCATCC TCATCCTGGC TTTCTTCGCC TGTTGGCTGC 850 CTTACTACAT TGGGATCAGC ATCGACTCCT TCATCCTCCT GGAAATCATC 900 35 AAGCAAGGGT GTGAGTTTGA GAACACTGTG CACAAGTGGA TTTCCATCAC 950 M CGAGGCCCTA GCTTTCTTCC ACTGTTGTCT GAACCCCATC CTCTATGCTT 1000 40 🚡 TCCTTGGAGC CAAATTTAAA ACCTCTGCCC AGCACGCACT CACCTCTGTG 1050 AGCAGAGGGT CCAGCCTCAA GATCCTCTCC AAAGGAAAGC GAGGTGGACA 1100 TTCATCTGTT TCCACTGAGT CTGAGTCTTC AAGTTTTCAC TCCAGCTAAC 1150 45 ACAGATGTAA AAGACTTTTT TTTATACGAT AAATAACTTT TTTTTAAGTT 1200 ACACATTTTT CAGATATAAA AGACTGACCA ATATTGTACA GTTTTTATTG 1250 50 CTTGTTGGAT TTTTGTCTTG TGTTTCTTTA GTTTTTGTGA AGTTTAATTG 1300 ACTTATTTAT ATAAATTTTT TTTGTTTCAT ATTGATGTGT GTCTAGGCAG 1350 GACCTGTGGC CAAGTTCTTA GTTGCTGTAT GTCTCGTGGT AGGACTGTAG 1400 55 AAAAGGGAAC TGAACATTCC AGAGCGTGTA GTGAATCACG TAAAGCTAGA 1450 AATGATCCCC AGCTGTTTAT GCATAGATAA TCTCTCCATT CCCGTGGAAC 1500

	ACCA	AAG	CCC 1	AAAG'	TGGT	AT A	GAAA'	TGCT	G GT	TTTT	CAGT	TTT	CAGG	AGT	1600
5	GGGT	'TGA'	rtt (	CAGC	ACCT	AC A	GTGT	ACAG:	r ct	TGTA'	TTAA	GTT	GTTA	ATA	1650
J	AAAG	TAC	ATG :	TAA	ACTT	AA AA	AAAA	AAAA	AA A	AAAA	AAAA	AAA	AAAA	AAA	1700
	AAAA	AAA	AAA A	AAAG	CGGC	CG C	CAGC	ACAC'	r gg	AATT	C 17	37			
10	(2) I	NFO	RMAT	ION 1	FOR S	SEQ :	ID NO	0:4:							
15	(i	( <i>I</i>	A) LI 3) T	ENGTI YPE:	CHARA H: 3! Amir OGY:	52 ar	mino cid	ICS: acio	ds						
	(xi	) SI	EQUE	NCE I	DESCI	RIPT	ION:	SEQ	ID 1	NO:4	:				
20	Met 1	Glu	Gly	Ile	Ser 5	Ile	Tyr	Thr	Ser	Asp 10	Asn	Tyr	Thr	Glu	Glu 15
	Met	Gly	Ser	Gly	Asp 20	Tyr	Asp	Ser	Met	Lys 25	Glu	Pro	Cys	Phe	Arg 30
25 <u>□</u>	Glu	Glu	Asn	Ala	Asn 35	Phe	Asn	Lys	Ile	Phe 40	Leu	Pro	Thr	Ile	Tyr 45
	Ser	Ile	Ile	Phe	Leu 50	Thr	Gly	Ile	Val	Gly 55	Asn	Gly	Leu	Val	Ile 60
91 C L C C C C C C C C C C C C C C C C C	Leu	Val	Met	Gly	Tyr 65	Gln	Lys	Lys	Leu	Arg 70	Ser	Met	Thr	Asp	Lys 75
ى _ _ 35	Tyr	Arg	Leu	His	Leu 80	Ser	Val	Ala	Asp	Leu 85	Leu	Phe	Val	Ile	Thr 90
m	Leu	Pro	Phe	Trp	Ala 95	Val	Asp	Ala	Val	Ala 100	Asn	Trp	Tyr	Phe	Gly 105
10 J- 5	Asn	Phe	Leu	Cys	Lys 110	Ala	Val	His	Val	Ile 115	Tyr	Thr	Val	Asn	Leu 120
	Tyr	Ser	Ser	Val	Leu 125	Ile	Leu	Ala	Phe	Ile 130	Ser	Leu	Asp	Arg	Tyr 135
45	Leu .	Ala	Ile	Val	His 140	Ala	Thr	Asn	Ser	Gln 145	Arg	Pro	Arg	Lys	Leu 150
50	Leu .	Ala	Glu	Lys	Val 155	Val	Tyr	Val	Gly	Val 160	Trp	Ile	Pro	Ala	Leu 165
	Leu	Leu	Thr	Ile	Pro 170	Asp	Phe	Ile	Phe	Ala 175	Asn	Val	Ser	Glu	Ala 180
55	Asp .	Asp	Arg	Tyr	Ile 185	Cys	Asp	Arg	Phe	Tyr 190	Pro	Asn	Asp	Leu	Trp 195
	Val	Val	Val	Phe	Gln	Phe	Gln	His	Ile	Met	Val	Gly	Leu	Ile	Leu

GTTTTTCCTG TTCTTAAGAC GTGATTTTGC TGTAGAAGAT GGCACTTATA 1550

		200	205	205									
	Pro Gly Ile Val	Ile Leu Se 215	r Cys Tyr Cys 220	Ile Ile Ile	Ser Lys 225								
5	Leu Ser His Ser	Lys Gly His	s Gln Lys Arg 235	Lys Ala Leu	Lys Thr 240								
10	Thr Val Ile Leu	Ile Leu Ala 245	a Phe Phe Ala 250	Cys Trp Leu	Pro Tyr 255								
10	Tyr Ile Gly Ile	Ser Ile Asp 260	Ser Phe Ile 265	Leu Leu Glu	Ile Ile 270								
15	Lys Gln Gly Cys	Glu Phe Glu 275	Asn Thr Val 280	His Lys Trp	Ile Ser 285								
	Ile Thr Glu Ala	Leu Ala Pho 290	e Phe His Cys 295	Cys Leu Asn	Pro Ile 300								
20	Leu Tyr Ala Phe	Leu Gly Ala 305	a Lys Phe Lys 310	Thr Ser Ala	Gln His 315								
25 📮	Ala Leu Thr Ser	Val Ser Arc 320	g Gly Ser Ser 325	Leu Lys Ile	Leu Ser 330								
30 F	Lys Gly Lys Arg	Gly Gly His	s Ser Ser Val 340	Ser Thr Glu	Ser Glu 345								
₽ ₽ 30 ☐	Ser Ser Ser Phe	His Ser Ser 350 352											
<u>.</u>	(2) INFORMATION FOR SEQ ID NO:5:												
35 5 11 40 40	(A) LENGTI (B) TYPE: (C) STRANI	CHARACTERIST H: 1679 base Nucleic Act DEDNESS: Sin DGY: Linear	e pairs id										
40位 位	(xi) SEQUENCE I	DESCRIPTION	: SEQ ID NO:5	:									
	GAATTCCAGT GTGC	rggcgg ccgc	CCAGTG TGCTGG	CGGC GGCAGTTG	GAG 50								
45	GGAAAGGACA GAGG	TTATGA GTGC	CTGCAA GAGTGG	CAGC CTGGAGTA	GA 100								
	GAAAACACTA AAGG	GGAGT CAAA	AGACCT GAGTTCA	AAGT CCCAGCTC	TG 150								
50	CCACTGGTTA GCTG	GGGAT CTCG	GAAAAG ACCCAG	rgaa aaaaaaaa	AA 200								
	AAAGTGATGA GTTG	GAGGC AGGT	CGCGGC CCTACTO	GCCT CAGGAGAC	GA 250								
	TGCGCAGCTC ATTT	CTTAA ATTTO	GCAGCT GACGGCT	GCC ACCTCTCT	AG 300								
55	AGGCACCTGG CGGGG	SAGCCT CTCA	ACATAA GACAGTO	SACC AGTCTGGT	GA 350								

CTCACAGCCG GCACAGCCAT GAACTACCCG CTAACGCTGG AAATGGACCT 400

CGAGAACCTG GAGGACCTGT TCTGGGAACT GGACAGATTG GACAACTATA 450 ACGACACCTC CCTGGTGGAA AATCATCTCT GCCCTGCCAC AGAGGGGCCC 500 CTCATGGCCT CCTTCAAGGC CGTGTTCGTG CCCGTGGCCT ACAGCCTCAT 550 5 CTTCCTCCTG GGCGTGATCG GCAACGTCCT GGTGCTGGTG ATCCTGGAGC 600 GGCACCGGCA GACACGCAGT TCCACGGAGA CCTTCCTGTT CCACCTGGCC 650 10 GTGGCCGACC TCCTGCTGGT CTTCATCTTG CCCTTTGCCG TGGCCGAGGG 700 CTCTGTGGGC TGGGTCCTGG GGACCTTCCT CTGCAAAACT GTGATTGCCC 750 TGCACAAAGT CAACTTCTAC TGCAGCAGCC TGCTCCTGGC CTGCATCGCC 800 15 GTGGACCGCT ACCTGGCCAT TGTCCACGCC GTCCATGCCT ACCGCCACCG 850 CCGCCTCCTC TCCATCCACA TCACCTGTGG GACCATCTGG CTGGTGGGCT 900 20 TCCTCCTTGC CTTGCCAGAG ATTCTCTTCG CCAAAGTCAG CCAAGGCCAT 950 CACAACAACT CCCTGCCACG TTGCACCTTC TCCCAAGAGA ACCAAGCAGA 1000 AACGCATGCC TGGTTCACCT CCCGATTCCT CTACCATGTG GCGGGATTCC 1050 25 TGCTGCCCAT GCTGGTGATG GGCTGGTGCT ACGTGGGGGT AGTGCACAGG 1100 C TTGCGCCAGG CCCAGCGGCG CCCTCAGCGG CAGAAGGCAG TCAGGGTGGC 1150 30 📥 CATCCTGGTG ACAAGCATCT TCTTCCTCTG CTGGTCACCC TACCACATCG 1200 m TCATCTTCCT GGACACCCTG GCGAGGCTGA AGGCCGTGGA CAATACCTGC 1250 Ш AAGCTGAATG GCTCTCCCC CGTGGCCATC ACCATGTGTG AGTTCCTGGG 1300 35 🗀 CCTGGCCCAC TGCTGCCTCA ACCCCATGCT CTACACTTTC GCCGGCGTGA 1350 П N AGTTCCGCAG TGACCTGTCG CGGCTCCTGA CGAAGCTGGG CTGTACCGGC 1400 40 💆 CCTGCCTCCC TGTGCCAGCT CTTCCCTAGC TGGCGCAGGA GCAGTCTCTC 1450 価 TGAGTCAGAG AATGCCACCT CTCTCACCAC GTTCTAGGTC CCAGTGTCCC 1500 CTTTTATTGC TGCTTTTCCT TGGGGCAGGC AGTGATGCTG GATGCTCCTT 1550 45 CCAACAGGAG CTGGGATCCT AAGGGCTCAC CGTGGCTAAG AGTGTCCTAG 1600 GAGTATCCTC ATTTGGGGTA GCTAGAGGAA CCAACCCCCA TTTCTAGAAC 1650 50 ATCCCGCGC CGCCAGCACA CTGGAATTC 1679

## (2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 372 amino acids
  - (B) TYPE: Amino Acid
  - (D) TOPOLOGY: Linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

	Met 1	Asn	Tyr	Pro	Leu 5	Thr	Leu	Glu	Met	Asp 10	Leu	Glu	Asn	Leu	Glu 15
5	Asp	Leu	Phe	Trp	Glu 20	Leu	Asp	Arg	Leu	Asp 25	Asn	Tyr	Asn	Asp	Thr 30
1.0	Ser	Leu	Val	Glu	Asn 35	His	Leu	Cys	Pro	Ala 40	Thr	Glu	Gly	Pro	Leu 45
10	Met	Ala	Ser	Phe	Lys 50	Ala	Val	Phe	Val	Pro 55	Val	Ala	Tyr	Ser	Leu 60
15	Ile	Phe	Leu	Leu	Gly 65	Val	Ile	Gly	Asn	Val 70	Leu	Val	Leu	Val	Ile 75
	Leu	Glu	Arg	His	Arg 80	Gln	Thr	Arg	Ser	Ser 85	Thr	Glu	Thr	Phe	Leu 90
20	Phe	His	Leu	Ala	Val 95	Ala	Asp	Leu	Leu	Leu 100	Val	Phe	Ile	Leu	Pro 105
<b>-</b>	Phe	Ala	Val	Ala	Glu 110	Gly	Ser	Val	Gly	Trp 115	Val	Leu	Gly	Thr	Phe 120
25 <u> </u>	Leu	Cys	Lys	Thr	Val 125	Ile	Ala	Leu	His	Lys 130	Val	Asn	Phe	Tyr	Cys 135
25 🖺 🖂	Ser	Ser	Leu	Leu	Leu 140	Ala	Cys	Ile	Ala	Val 145	Asp	Arg	Tyr	Leu	Ala 150
	Ile	Val	His	Ala	Val 155	His	Ala	Tyr	Arg	His 160	Arg	Arg	Leu	Leu	Ser 165
35 🗖 (T)	Ile	His	Ile	Thr	Cys 170	Gly	Thr	Ile	Trp	Leu 175	Val	Gly	Phe	Leu	Leu 180
T 40 Ü	Ala	Leu	Pro	Glu	Ile 185	Leu	Phe	Ala	Lys	Val 190	Ser	Gln	Gly	His	His 195
Ü	Asn	Asn	Ser	Leu	Pro 200	Arg	Cys	Thr	Phe	Ser 205	Gln	Glu	Asn	Gln	Ala 210
45	Glu	Thr	His	Ala	Trp 215	Phe	Thr	Ser	Arg	Phe 220	Leu	Tyr	His	Val	Ala 225
	Gly	Phe	Leu	Leu	Pro 230	Met	Leu	Val	Met	Gly 235	Trp	Cys	Tyr	Val	Gly 240
50	Val	Val	His	Arg	Leu 245	Arg	Gln	Ala	Gln	Arg 250	Arg	Pro	Gln	Arg	Gln 255
55	Lys	Ala	Val	Arg	Val 260	Ala	Ile	Leu	Val	Thr 265	Ser	Ile	Phe	Phe	Leu 270
<b>J</b> J	Cys	Trp	Ser	Pro	Tyr 275	His	Ile	Val	Ile	Phe 280	Leu	Asp	Thr	Leu	Ala 285

	Arg	Leu	гàг	АТА	290	Asp	Asn	Thr	Cys	Lуs 295	Leu	Asn	GTÀ	Ser	300
5	Pro	Val	Ala	Ile	Thr 305	Met	Cys	Glu	Phe	Leu 310	Gly	Leu	Ala	His	Cys 315
5	Cys	Leu	Asn	Pro	Met 320	Leu	Tyr	Thr	Phe	Ala 325	Gly	Val	Lys	Phe	Arç 330
10	Ser	Asp	Leu	Ser	Arg 335	Leu	Leu	Thr	Lys	Leu 340	Gly	Cys	Thr	Gly	Pro 345
	Ala	Ser	Leu	Cys	Gln 350	Leu	Phe	Pro	Ser	Trp 355	Arg	Arg	Ser	Ser	Leu 360
15	Ser	Glu	Ser	Glu	Asn 365	Ala	Thr	Ser	Leu	Thr 370	Thr	Phe 372			